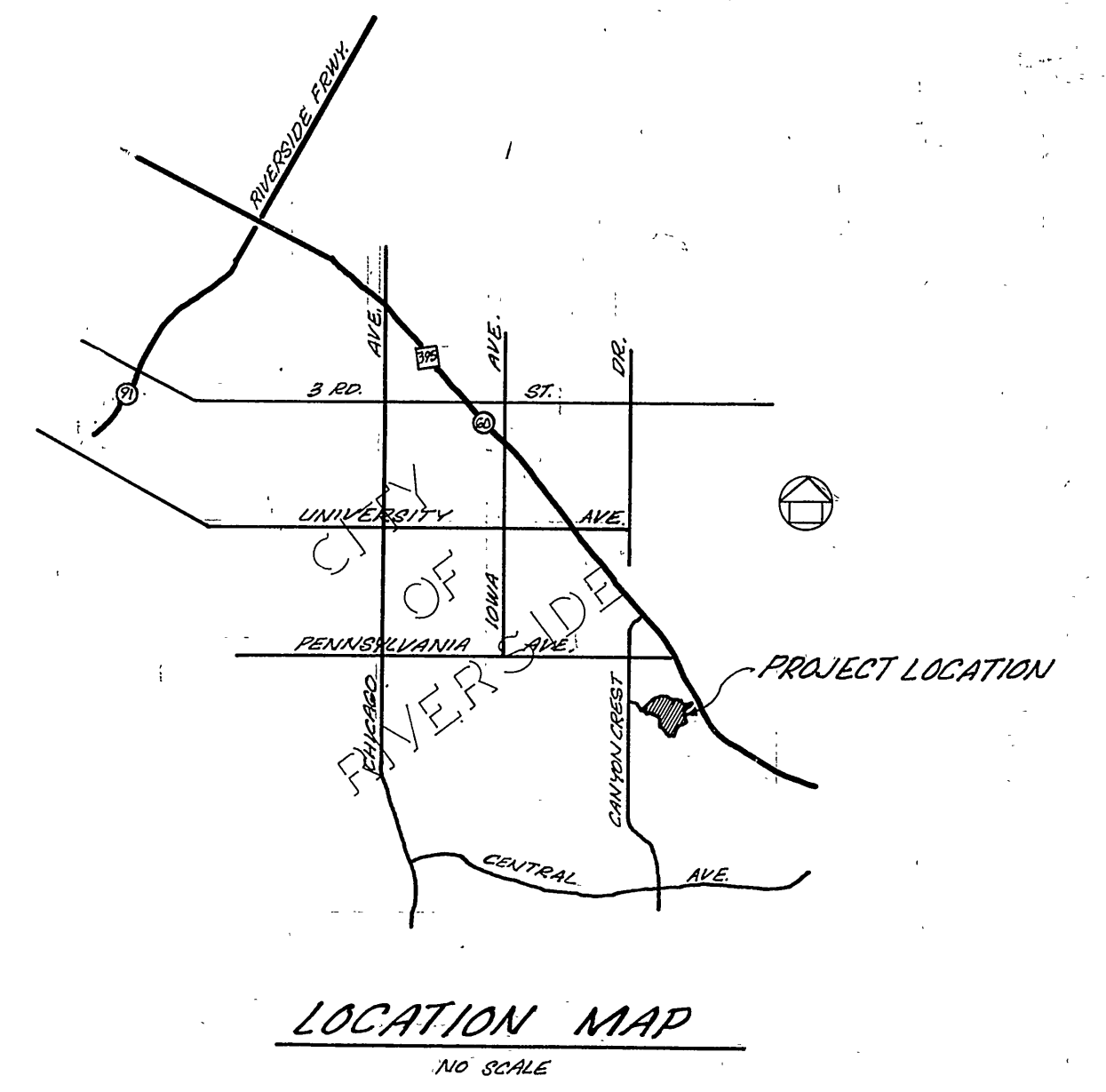


NOTE
 THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SIGNING THE PLANS SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.

- GENERAL NOTES**
1. Construction to be in accordance with Standard Specifications for Public Works Construction, 1988 Edition & THE 1987, 1982 SUPPLEMENTS AND SPECIAL PROVISIONS.
 2. All manholes shall be in accordance with Standard Dwg. No. 500. Top of all manholes to meet existing ground or street surface.
 3. All cleanouts shall be in accordance with Standard Dwg. No. 500. Top of all cleanouts to meet existing ground or street surface.
 4. Pipe bedding shall be in accordance with Standard Dwg. No. 452, Case I unless otherwise shown.
 5. Sewer laterals shall be laid in accordance with Standard Dwg. No. 502.



LOCATION MAP
NO SCALE

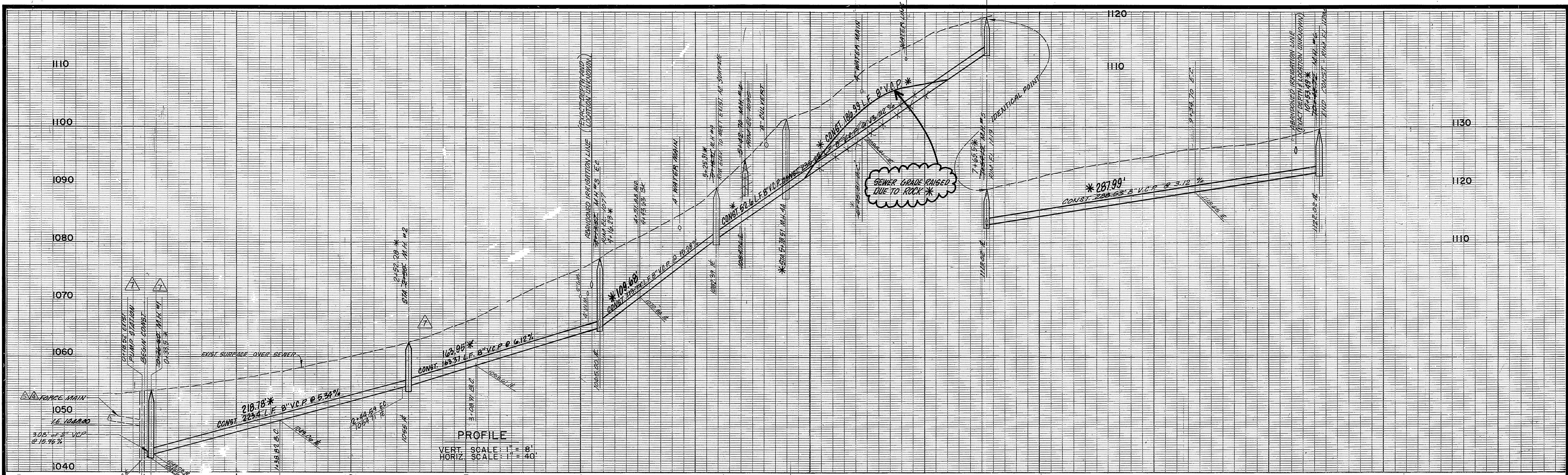
ENGINEER IN RESPONSIBLE CHARGE
 HANS J. KAMRATH
 R.C.E. 14712 EXPIRES 3/31/93
 DATE 9/19/90
 REGISTERED PROFESSIONAL ENGINEER
 HANS J. KAMRATH
 NO: 14712
 CIVIL
 STATE OF CALIFORNIA

Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this Project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineer harmless from any and all liability, real or alleged; in connection with the performance of work on this Project, excepting for liability arising from the sole negligence of the Owner or the Engineer.

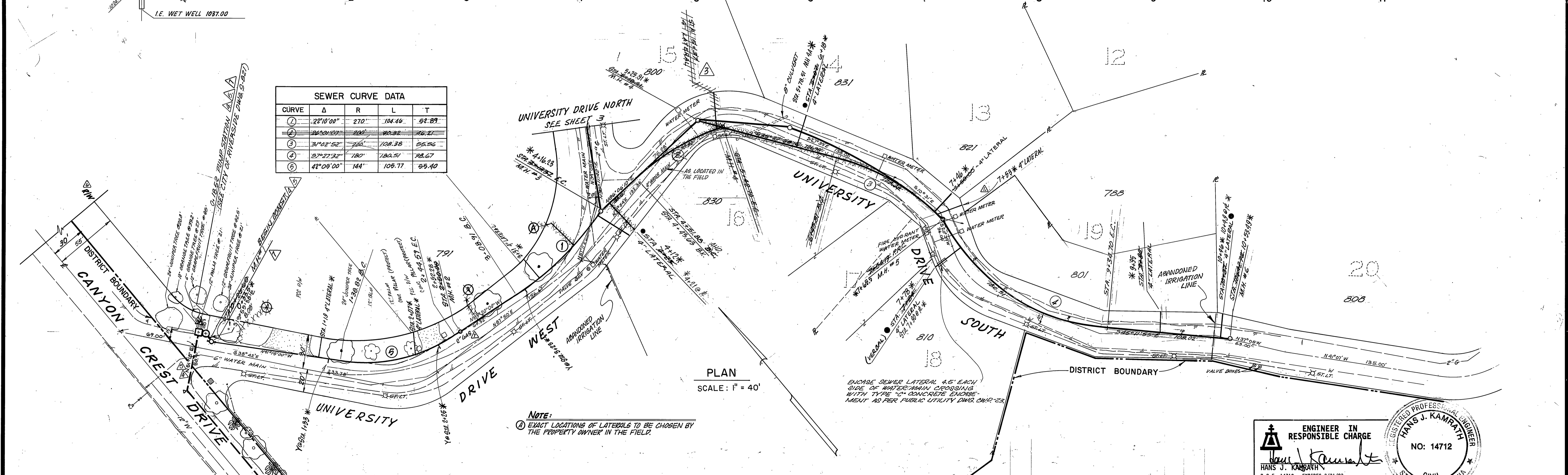
- BENCH MARKS**
1. PK nail in S.E. curb return at Navajo Drive and Canyon Crest Drive. Elev. 1073.691. +/- F.B. 721/44.
 2. RR spike in Palm tree on west side of Canyon Crest Drive 50' south of University Drive. Elev. 1065.810. +/- F.B. 721/44.

NOTICE TO CONTRACTOR: The existence and location of any underground utility lines or structures shown on these plans were obtained by a search of the available records. To the best of our knowledge there are no existing utilities except as shown on these plans. The Contractor is required to take due precautionary measures to protect the utilities shown and any others not shown or not of record.

CITY OF RIVERSIDE DOMESTIC SYSTEM BY: <i>Richard J. Debit</i> CHIEF UTILITIES ENGINEER, WATER DATE 9-19-90	J. E. DAVIDSON ASSOCIATES CIVIL ENGINEERS - SURVEYORS - PLANNERS RIVERSIDE, CALIFORNIA APPROVED BY: <i>[Signature]</i> DATE 3/18/77 R.E. No. 17550	<table border="1"> <tr> <th>MARK</th> <th>REVISIONS</th> <th>APPR.</th> <th>DATE</th> </tr> <tr> <td>△</td> <td>REMOVED EASEMENT & SEWER PNH</td> <td>WJK</td> <td>12/27/77</td> </tr> <tr> <td>△</td> <td>RE-ALIGNED SWR & EASEMENT</td> <td>WJK</td> <td>12/27/77</td> </tr> <tr> <td>△</td> <td>REVISED PLANS TO REFLECT DISTRICT BOUNDARY</td> <td>WJK</td> <td>11/19/82</td> </tr> <tr> <td>△</td> <td>CHANGED UNIFORM CITY STANDARDS, PLANS</td> <td>WJK</td> <td>11/19/82</td> </tr> <tr> <td>△</td> <td>REVISED UNIVERSITY DRIVE CENTER FOR IMPROVED LOCATION OF PUMP STATION</td> <td>WJK</td> <td>12/1/83</td> </tr> <tr> <td>△</td> <td>REVISED UNIVERSITY DRIVE CENTER FOR IMPROVED LOCATION OF PUMP STATION</td> <td>WJK</td> <td>12/1/83</td> </tr> <tr> <td>△</td> <td>REVISION UNIVERSITY DRIVE</td> <td>WJK</td> <td>12/1/83</td> </tr> <tr> <td>△</td> <td>REVISED SWR LATERALS FOR P.M. 20201</td> <td>WJK</td> <td>11/19/86</td> </tr> <tr> <td>△</td> <td>UPDATED TO 1988 SPEC. & CHANGED EASEMENT LINES</td> <td>WJK</td> <td>11/19/86</td> </tr> </table>	MARK	REVISIONS	APPR.	DATE	△	REMOVED EASEMENT & SEWER PNH	WJK	12/27/77	△	RE-ALIGNED SWR & EASEMENT	WJK	12/27/77	△	REVISED PLANS TO REFLECT DISTRICT BOUNDARY	WJK	11/19/82	△	CHANGED UNIFORM CITY STANDARDS, PLANS	WJK	11/19/82	△	REVISED UNIVERSITY DRIVE CENTER FOR IMPROVED LOCATION OF PUMP STATION	WJK	12/1/83	△	REVISED UNIVERSITY DRIVE CENTER FOR IMPROVED LOCATION OF PUMP STATION	WJK	12/1/83	△	REVISION UNIVERSITY DRIVE	WJK	12/1/83	△	REVISED SWR LATERALS FOR P.M. 20201	WJK	11/19/86	△	UPDATED TO 1988 SPEC. & CHANGED EASEMENT LINES	WJK	11/19/86	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY: <i>[Signature]</i> OFFICE ENGINEER PARK DEPARTMENT TRAFFIC DIVISION ASSISTANT CITY ENG.	UNIVERSITY KNOLLS ASSESSMENT DISTRICT SANITARY SEWER INDEX MAP SHEET 1 OF 4 FILE NO. 5533	PROJECT NO. 84-451-620 5-814 DATE 10-4-77 HORIZ. SCALE: 1" = 100' VERT. SCALE: 1" = 10' INDEXED 2-6-91 LHH
			MARK	REVISIONS	APPR.	DATE																																							
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CITY OF RIVERSIDE DOMESTIC SYSTEM BY: <i>Wesley Holt</i> CHIEF UTILITIES ENGINEER, WATER DATE 9-13-77	APPROVED BY: <i>[Signature]</i> DATE 10-4-77																																												

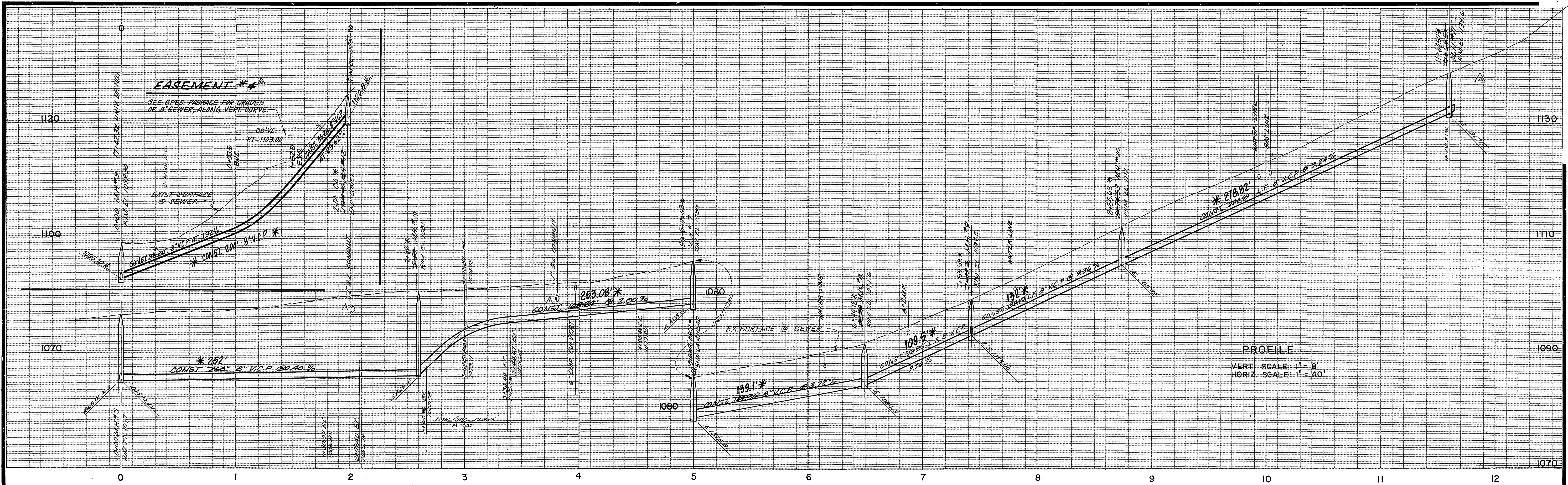


SEWER CURVE DATA				
CURVE	Δ	R	L	T
1	28°10'00"	270'	104.46	52.89
2	26°34'07"	200'	82.82	46.41
3	31°02'52"	206'	108.38	55.96
4	52°27'32"	180'	180.51	88.67
5	42°09'00"	144'	109.17	55.40

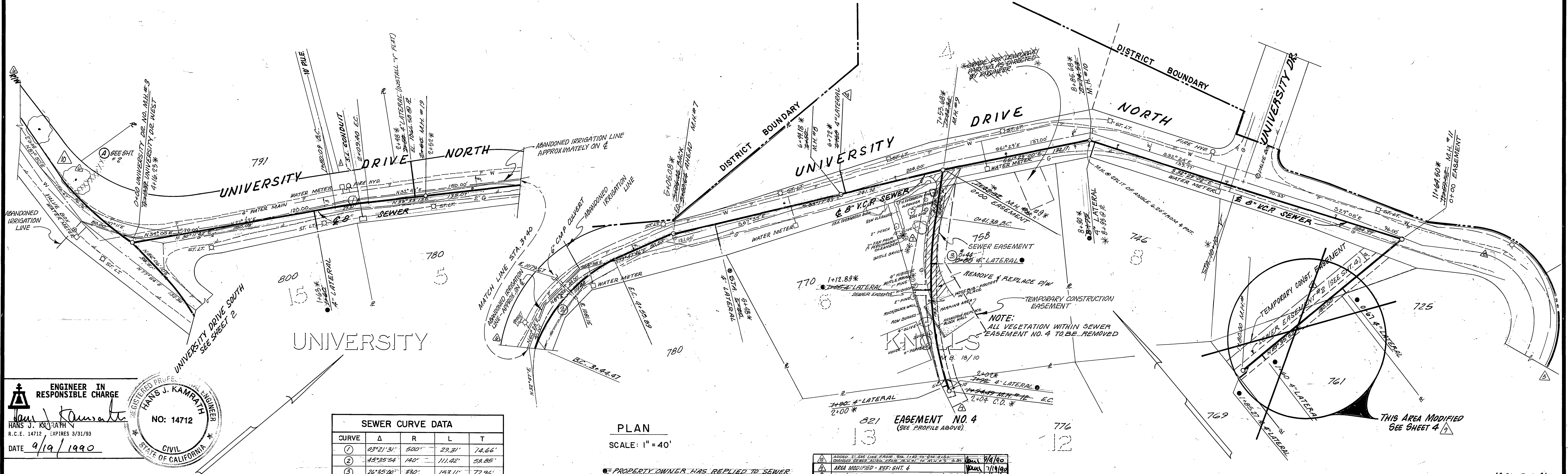


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CITY OF RIVERSIDE DOMESTIC SYSTEM BY: <i>Ronald J. Ortel</i> 9-19-90 CHIEF UTILITIES ENGINEER, WATER CITY OF RIVERSIDE DOMESTIC SYSTEM BY: <i>Valley Hylan</i> 9-13-77 CHIEF UTILITIES ENGINEER, WATER	J.F. DAVIDSON ASSOCIATES CIVIL ENGINEERS SURVEYORS PLANNERS 3426 TENTH STREET RIVERSIDE, CALIFORNIA APPROVED BY: <i>John W. Ortel</i> DATE: 3/18/97 R.E. No. 17550	DELETED/ADDED/REMOVED LATERAL REVISIONS DESIGNED BY: PH DRAWN BY: KPT CHECKED BY: JULL	CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT APPROVED BY: <i>John W. Ortel</i> PRINCIPAL ENGINEER PARK DEPARTMENT TRAFFIC DIVISION CHIEF P.W. ENGINEER DATE: 10-4-77	REGISTERED PROFESSIONAL ENGINEER HANS J. KAMRATH NO: 14712 CIVIL STATE OF CALIFORNIA ENGINEER IN RESPONSIBLE CHARGE HANS J. Kamrath R.C.E. 14712 EXPIRES 3/31/93 DATE: 9/19/1990	* AS BUILT 7/91 ACCOUNT NO. 84-451-053 S-814 SHEET 2 OF 4 FILE NO. 5533
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PROFILE
 VERT. SCALE: 1" = 8'
 HORIZ. SCALE: 1" = 40'



SEWER CURVE DATA

CURVE	Δ	R	L	T
1	03°21'31"	500'	29.31'	74.66'
2	43°35'58"	140'	111.42'	58.85'
3	26°35'00"	330'	153.11'	77.96'

PLAN
 SCALE: 1" = 40'

ENGINEER IN RESPONSIBLE CHARGE
HANS J. KAMRATH
 HANS J. KAMRATH
 R.C.E. 14712 EXPIRES 3/31/93
 DATE 9/19/1990
 CIVIL ENGINEER
 STATE OF CALIFORNIA
 NO: 14712

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CITY OF RIVERSIDE
 DOMESTIC SYSTEM
 BY: **Richard L. Duke** 9-19-90
 CHIEF UTILITIES ENGINEER, WATER
 DATE
 BY: **Wesley Hylan** 9-13-77
 CHIEF UTILITIES ENGINEER, WATER
 DATE

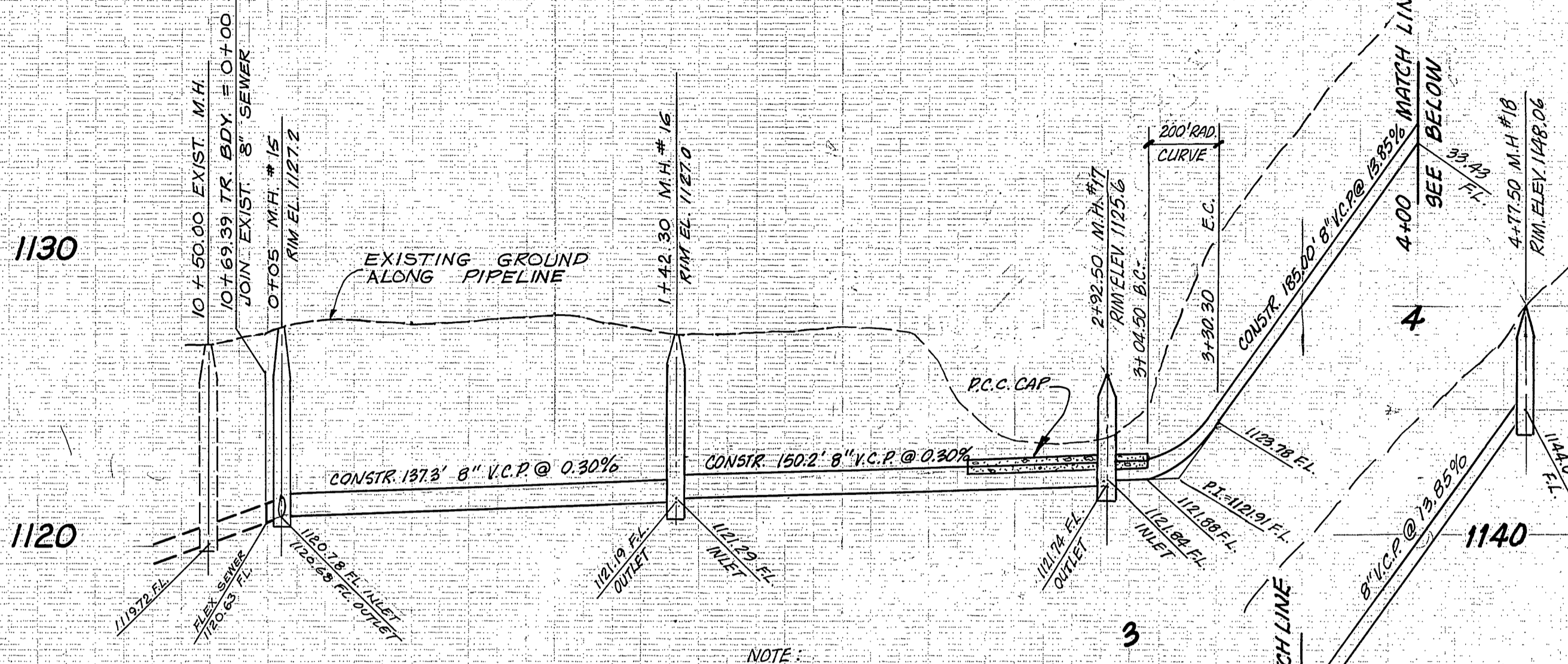
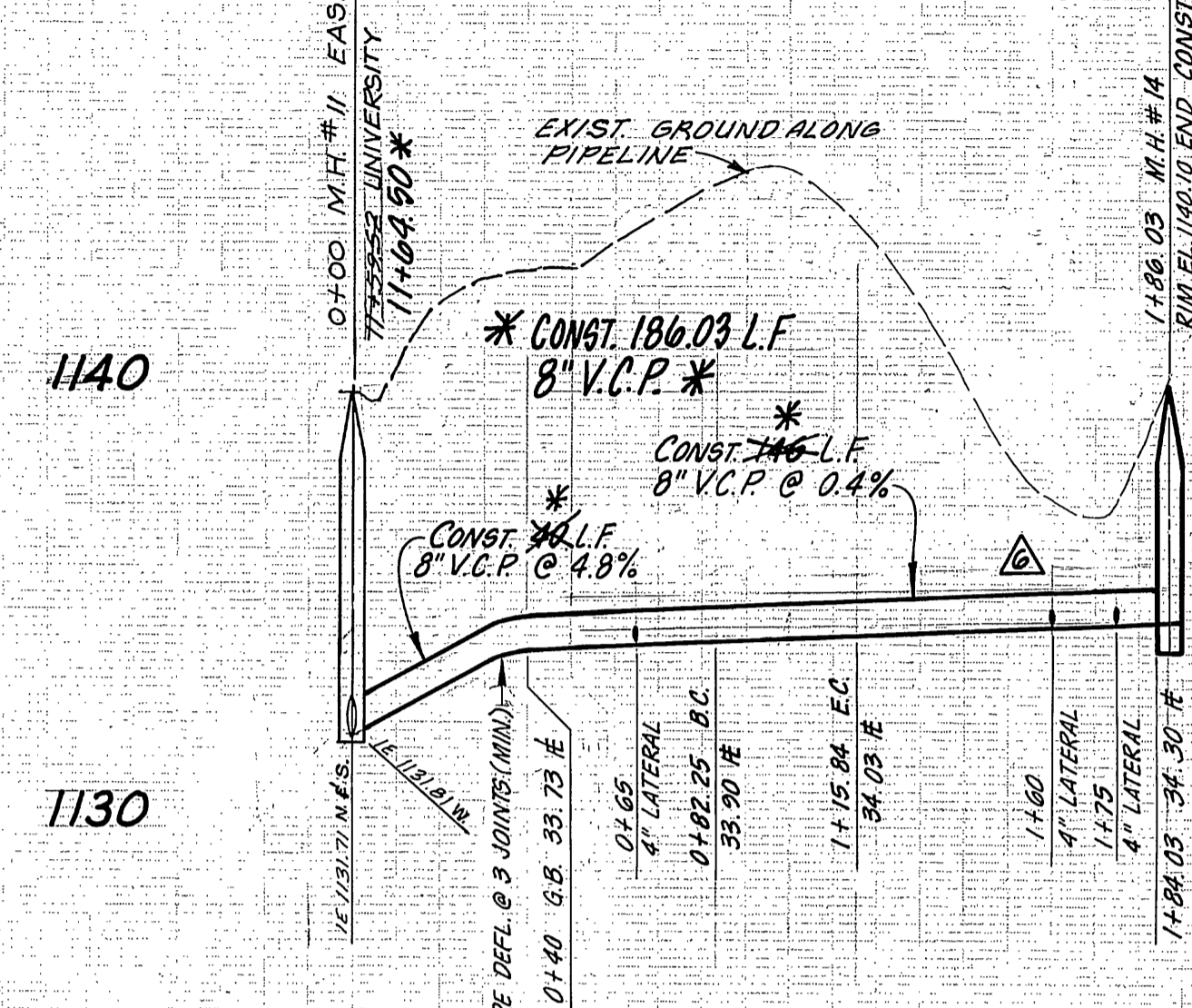
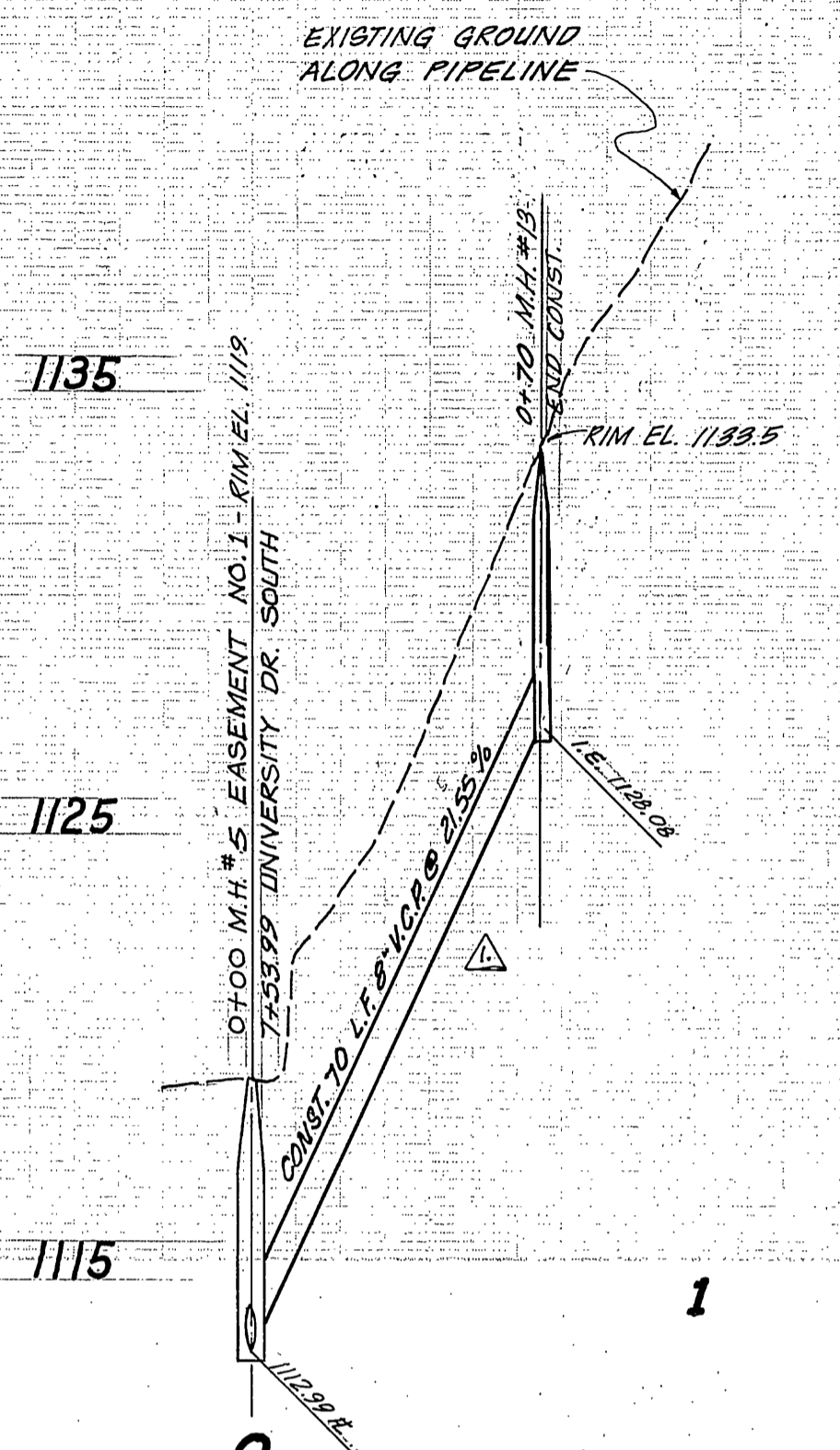
J. F. DAVIDSON ASSOCIATES
 CIVIL ENGINEERS SURVEYORS PLANNERS
 3426 TENTH STREET RIVERSIDE, CALIFORNIA
 APPROVED: **John W. Davidson** DATE 3/1/91
 R.E. No. 17550

PROPERTY OWNER HAS REPLIED TO SEWER LATERAL PLACEMENT

ADDED 2" GAS LINE FROM STA. 1+40 TO 1+44 @ 0.40%	9/4/90
AREA MODIFIED - REF. SHT. # 2	7/19/90
CHANGED GRADES OF 8" SEWER; EASEMENT # 4	5/15/89
ADDED TEMPORARY CONST. EASEMENT	7/1/89
ADDED STREET LIGHT CONDUITS	11/19/88
DELETED SEWER EASEMENT R/W	11/19/88
ADDED TEMPORARY CONST. EASEMENT - LOT 7	11/19/88
ADDED TEMPORARY CONST. EASEMENT - LOT 7	11/19/88
ADDED TEMPORARY CONST. EASEMENT - LOT 7	11/19/88
REVISED DISTRICT BOUNDARY	11/19/88
REVISED R/W LATERALS FOR R/W 20281	11/19/88
REVISED R/W LATERALS FOR R/W 20281	11/19/88

CITY OF RIVERSIDE
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: **[Signature]** DATE 9/1/91
 PRINCIPAL ENGINEER
 PARK DEPARTMENT
 TRAFFIC DIVISION
 CHIEF P.W. ENGINEER

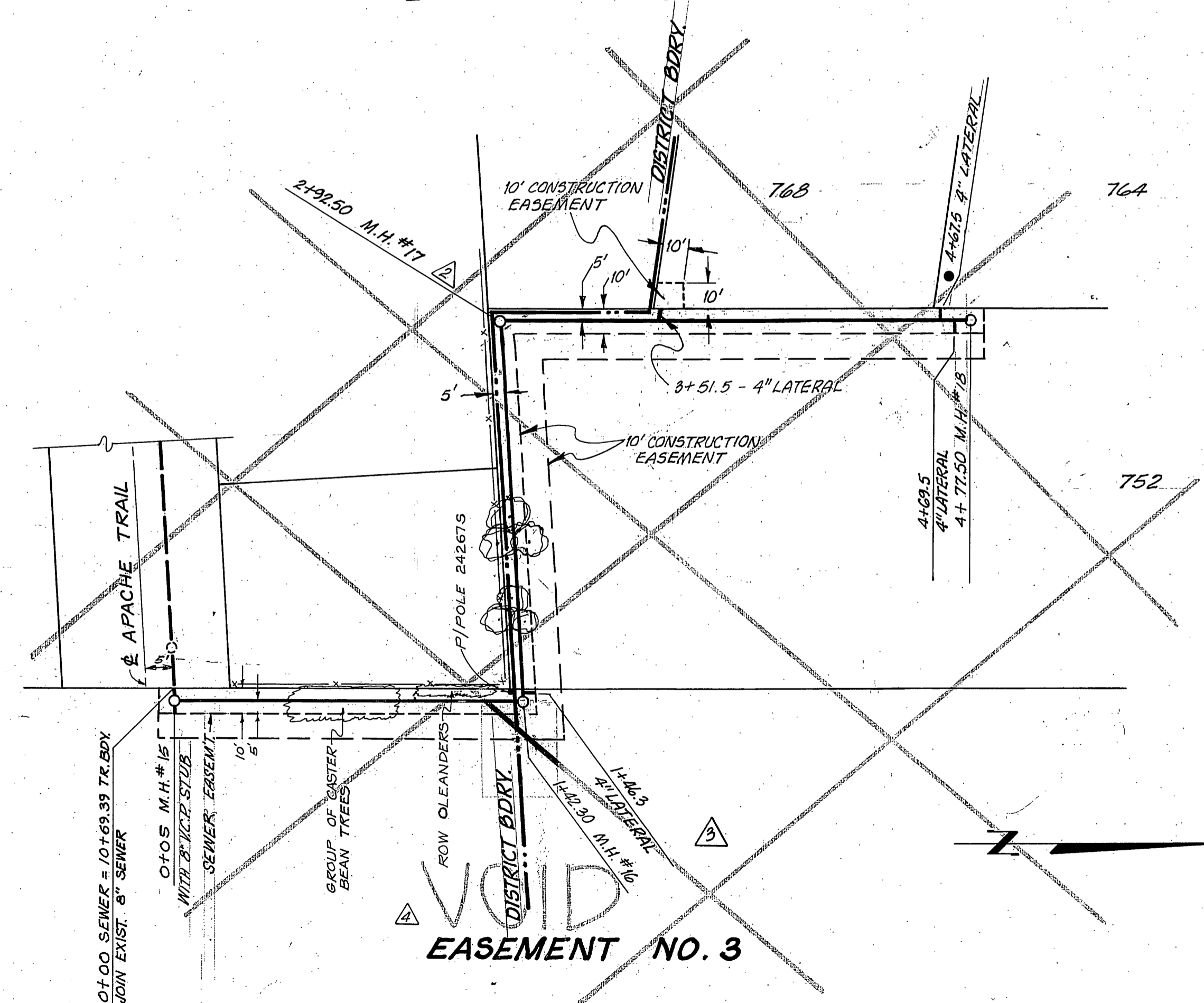
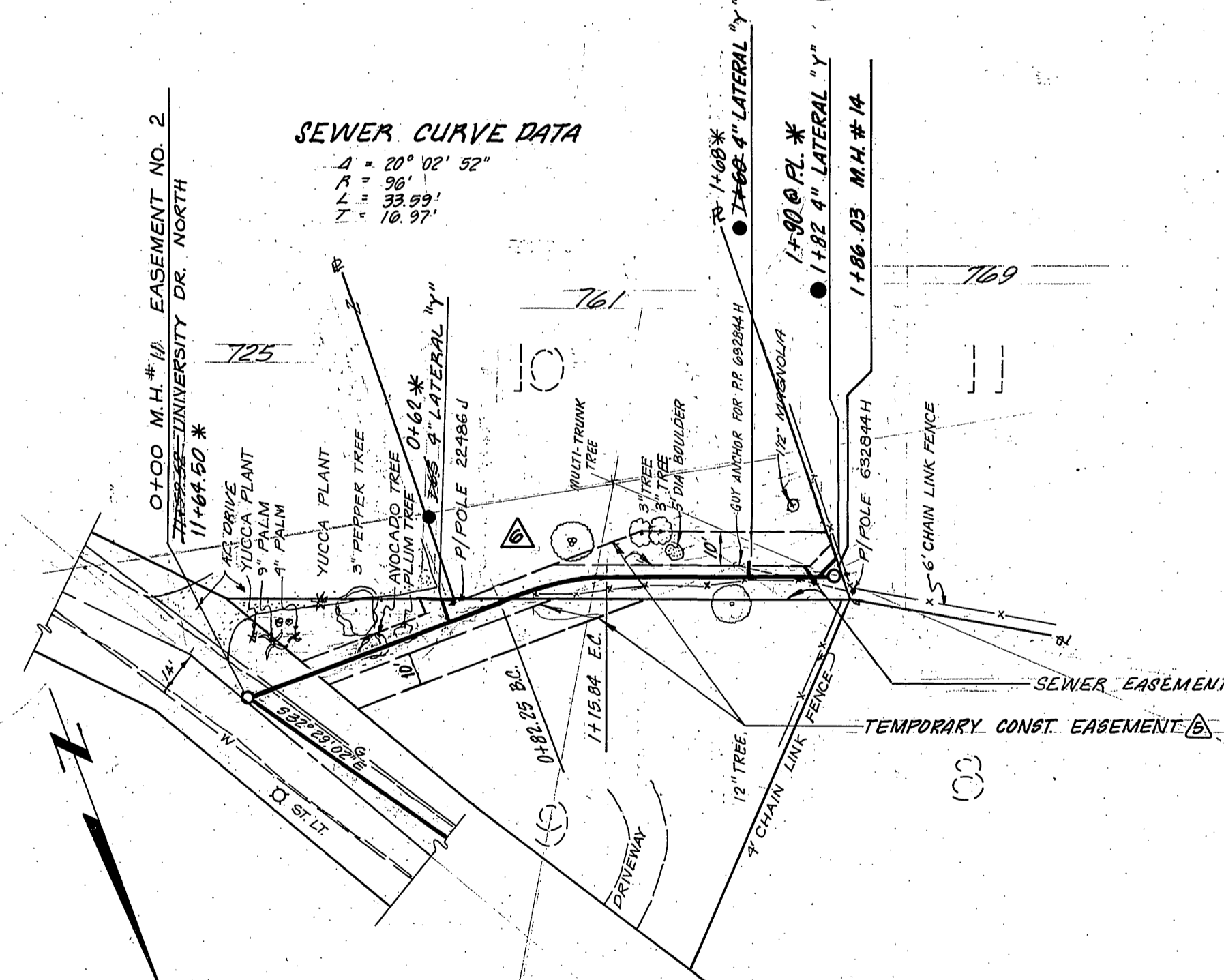
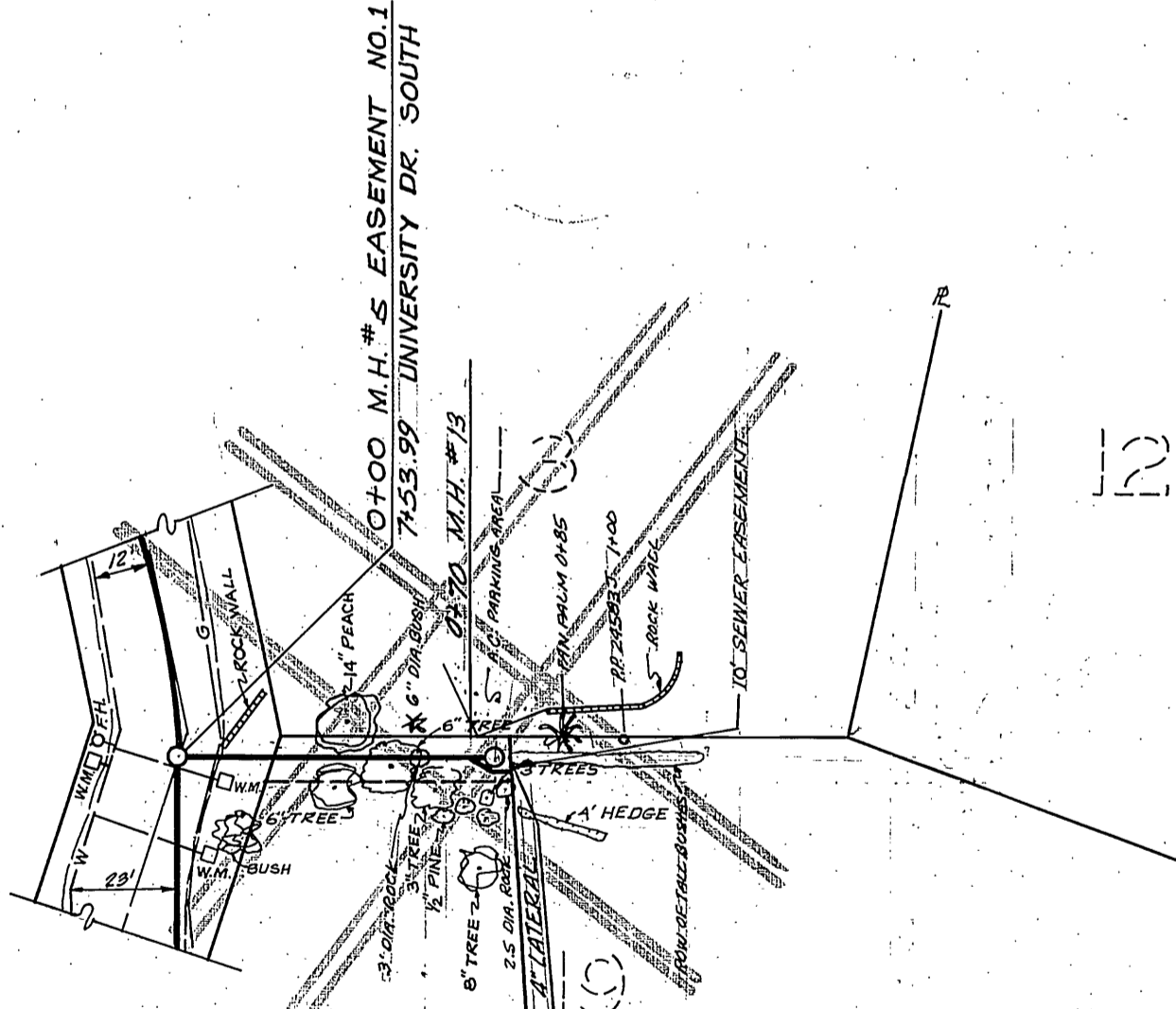
UNIVERSITY KNOLLS
 ASSESSMENT DISTRICT
 SANITARY SEWER
 UNIVERSITY DRIVE NO.
 HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 8'
 * AS BUILT 7-91
 ACCOUNT NO. 84-451-658
S-814
 SHEET 3 OF 4
 FILE NO. 6533
 INDEXED 2-6-91



PROFILE SCALES
 HORIZ. 1" = 40'
 VERT. 1" = 4'

NOTE: P.C.C. CAP TO CONFORM WITH CASE 1 BEDDING AS PER STD. DVG. NO. 452. (WHERE LESS THAN 2' OF COVER)

SEWER CURVE DATA
 Δ = 20° 02' 52"
 R = 36'
 L = 33.99'
 T = 10.97'



EASEMENT NO. 1

EASEMENT NO. 2

EASEMENT NO. 3

REGISTERED PROFESSIONAL ENGINEER
HANS J. KAMRATH
 NO: 14712
 CIVIL
 STATE OF CALIFORNIA

NOTE: ALL VEGETATION WITHIN SEWER EASEMENTS TO BE REMOVED IF IN CONFLICT W/ CONSTRUCTION.
 * PROPERTY OWNER HAS REPLIED TO SEWER LATERAL PLACEMENT.

CITY OF RIVERSIDE DOMESTIC SYSTEM BY: <i>Richard J. Dade</i> CHIEF UTILITIES ENGINEER, WATER DATE: 9-19-90	J.F. DAVIDSON ASSOCIATES CIVIL ENGINEERS 3426 TENTH STREET RIVERSIDE, CALIFORNIA APPROVED BY: <i>John W. Cooney</i> DATE: 3/11/87 R.E. No. 17550 DESIGNED BY: P.N. DRAWN BY: S.W. CHECKED BY: J.M.	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY: <i>[Signature]</i> DATE: 10-4-77 PRINCIPAL ENGINEER PARK DEPARTMENT TRAFFIC DIVISION CHIEF P.W. ENGR.	UNIVERSITY KNOLLS ASSESSMENT DISTRICT SANITARY SEWER EASEMENTS HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4' PROJECT NO. 84-451-658 S-814 SHEET 4 OF 4 FILE NO. 5333
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INDEXED 2-6-91-64